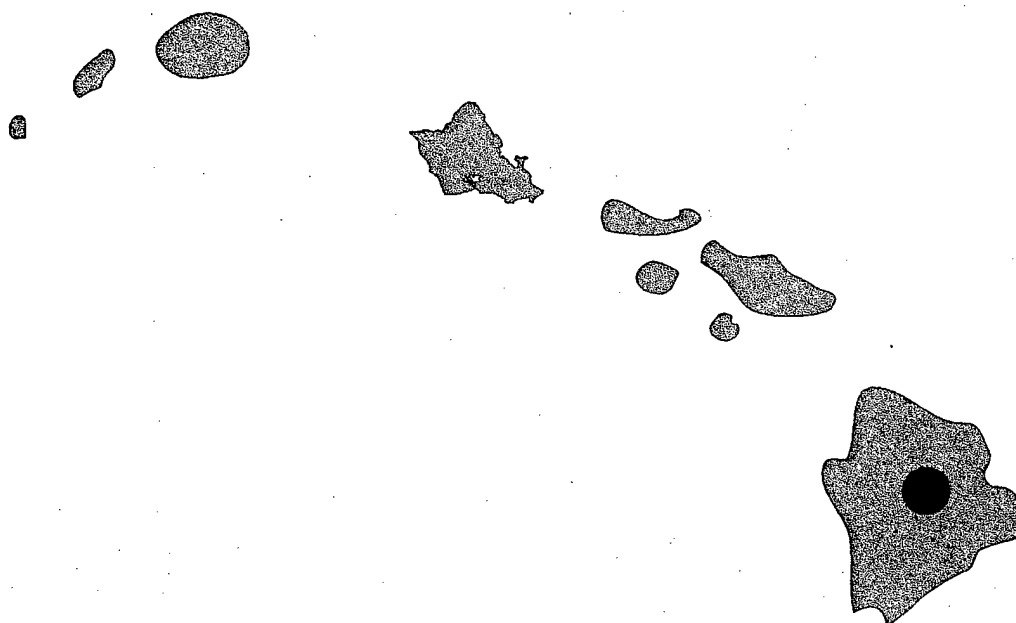


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# **COLLECTIONS SUMMARY FOR POHAKULOA TRAINING AREA, HAWAII**

**U.S. Army NAGPRA Compliance Project,  
Technical Report No. 83**



**Prepared for the  
U.S. Army Environmental Center,  
Environmental Compliance Division**

**by the  
U.S. Army Corps of Engineers,  
St. Louis District,  
*Mandatory Center of Expertise for the Curation and Management  
of Archaeological Collections***

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**AN ARCHAEOLOGICAL COLLECTIONS SUMMARY  
FOR  
POHAKULOA TRAINING AREA, HAWAII**

**Information Provided for Compliance with the  
Native American Graves Protection and Repatriation Act  
Section 6 Summary**

**Prepared for the  
U.S. Army Environmental Center,  
Environmental Compliance Division  
Aberdeen Proving Ground, Maryland**

**By  
U.S. Army Corps of Engineers,  
St. Louis District,  
Mandatory Center of Expertise for the  
Curation and Management of Archaeological Collections,  
U.S. Army NAGPRA Compliance Project,  
Technical Report No. 83**

**March 1996**

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## OBJECTIVES AND METHODS

The U.S. Army Environmental Center (AEC) tasked the Mandatory Center of Expertise for the Curation and Management of Archaeological Collections (MCX) with the job of assisting Army installation personnel in complying with the requirements of the Native American Graves Protection and Repatriation Act (P.L. 101-601, NAGPRA). The MCX was asked to locate and assess archaeological collections derived from Army-owned lands, to identify the Native Hawaiian organizations most likely culturally affiliated with the collections, to draft Section 6 Summary letters for each installation, and to conduct physical inventories of any collections that contain human skeletal remains. This report conveys the results of the collections research completed to assist Pohakuloa Training Area (PTA) in complying with the Section 6 Summary requirements of NAGPRA.

The MCX used a two-stage process to identify, locate, and assess the contents of archaeological collections from the installation. First, archival research was performed to review all archaeological site records and reports for the installation. Second, telephone interviews were conducted with personnel at installations, universities, museums, and archaeological contractors that were identified during the archival research as possible repositories of Army collections. The MCX did not physically verify the existence of collections and, as such, the information contained in this report is based on background record reviews and information obtained via telephone interviews with the aforementioned installation personnel and institution professionals.

Archival research for PTA began with a search of the National Archeological Data Base (NADB) for references pertaining to the installation. This was followed by a thorough examination of all archaeological site forms and a literature review of all pertinent archaeological reports and manuscripts on file at the Department of Land and Natural Resources, State Historic Preservation Division, Honolulu; the Bernice Pauahi Bishop Museum, Honolulu; and the U.S. Army Corps of Engineers, Pacific Ocean Division, Fort Shafter, Hawaii. The records search was performed at the above repositories in September of 1995 and sought to identify any work on the installation that may have produced archaeological collections.

Subsequent telephone interviews to potential collections repositories ascertained whether the materials were present and the range of objects in each collection. Draft Section 6 Summary letters are enclosed (Appendix I), as well as a listing of the Native Hawaiian organizations that should be contacted and their points of contact (Appendix II).

## RESEARCH RESULTS

### ARCHAEOLOGICAL INVESTIGATIONS AT POHAKULOA TRAINING AREA

Numerous archaeological investigations have been conducted at PTA, beginning in 1958 and continuing to the present. Twelve organizations have been identified as having performed archaeological work at the installation.

Four organizations performed investigations that included the collecting of artifacts and other materials:

BioSystems Analysis, Inc., Kailua, Hawaii,  
International Archaeological Research Institute, Inc. (IARI), Honolulu, Hawaii,  
Ogden Environmental & Energy Services, Honolulu, Hawaii, and  
Paul H. Rosendahl, Inc. (PHRI), Hilo, Hawaii.

Eight organizations conducted investigations that reportedly did not include the collecting of artifacts or other materials:

Bernice Pauahi Bishop Museum, Honolulu, Hawaii,  
Chiniago, Inc., Kamuela, Hawaii,  
Cultural Surveys Hawaii, Kailua, Hawaii,  
ERC Environmental and Energy Services Co. (ERCE), Honolulu, Hawaii,  
Pacific Legacy, Inc., Aptos, California,  
Science Management, Inc., Honolulu, Hawaii,  
State Historic Preservation Division, Department of Land & Natural Resources,  
Honolulu, Hawaii, and  
U.S. Army Corps of Engineers, Pacific Ocean Division, Fort Shafter, Hawaii.

Investigations have included literature reviews, research designs, site file searches, interviews, reconnaissance surveys, systematic surveys, test excavations, and excavations to mitigate adverse effects on sites where necessary for the installation's mission. Archaeological site types have included lava tube sites, *ahu*/cairns, lithic quarries/workshops, trails, surface platforms, surface walls, and an open air shelter (Eidsness 1995).

## SUMMARY OF ARCHAEOLOGICAL COLLECTIONS

A total of approximately 59 ft<sup>3</sup> of archaeological materials has been identified for PTA. Materials include chipped and ground stone tools, adzed wood, volcanic glass, charcoal and ash samples, vegetal samples, animal bone, gourd and nut fragments, shell, historic metal, leather and glass, and human bone fragments. As of the date of this report, collections are believed to be located at the following seven repositories:

BioSystems Analysis, Inc., Kailua, Hawaii	~ 2 ft <sup>3</sup>
International Archaeological Research Institute, Inc., Honolulu (IARI), Hawaii	~ 2 ft <sup>3</sup>
National Museum of Natural History, Smithsonian Institution, Washington, D.C.	~1 ft <sup>3</sup>
Ogden Environmental and Energy Services, Honolulu, Hawaii	~24 ft <sup>3</sup>
Paul H. Rosendahl, Inc. (PHR), Hilo, Hawaii	~15.62 ft <sup>3</sup>
State Historic Preservation Division, Department of Land & Natural Resources, Honolulu, Hawaii	1 item
University of Hawaii-Hilo	~14.56 ft <sup>3</sup>

The attached *Summary of Current Locations of Archaeological Collections from Pohakuloa Training Area* (Appendix III) provides detailed information about each collection derived as a result of archaeological investigations at the installation. A collection consists of all of the materials, artifacts and associated documentation (e.g., field notes, maps, photos, data analyses, correspondence), produced as a result of an archaeological investigation or project at a single site or multiple sites. In some cases, the same archaeological site may have been investigated by various individuals or organizations. Depending on where the resulting collections are curated, they may be stored and identified as separate collections or separate components of a single collection. In cases where the artifacts and records have become separated, we list the records collections repository as well.

Every attempt has been made to locate all collections cited on available archaeological site records or in published and unpublished references to archaeological investigations on the installation.

### NAGPRA-Related Materials

Human remains have been recorded at four archaeological sites on PTA (5004, 10650, 10270, T-104); however, human bone fragments recorded at sites T-104 and 10270 were reportedly not collected. Paul H. Rosendahl, Inc., reportedly houses 0.79 grams of human bone collected from an ash deposit at Bobcat Trail Habitation Cave Site (5004) in 1985. The fragment

has been described as a probable distal fragment of an adult metatarsal. Radiocarbon dates indicate that the occupation of the site occurred between A.D. 1225 and the present. Other materials found in the deposit include charcoal, volcanic glass, animal bone, and basalt pebbles and cobbles (Haun 1986).

The State Historic Preservation Division (SHPD) currently houses an isolated human bone fragment recovered during investigations conducted by IARI at the installation in 1987. The fragment, described as a burned right human tibia, was found in a hearth feature at site 10650. The deposit also contained rocks, charred wood, charcoal, and gourd fragments. No other human remains were observed. Radiocarbon dates indicate a probable range of A.D. 1153 to 1311 for the hearth deposit (Athens and Kaschko 1988). SHPD will reportedly retain the fragment until receiving official word regarding its disposition (telephone conversation with Sara Collins, SHPD, 3 January 1996).

No funerary objects appear to have been found in association with the human remains from PTA. The final determination of sacred objects or objects of cultural patrimony among the PTA collections may be established upon further consultation with Native Hawaiian organizations according to the definitions and restrictions specified in NAGPRA.

## REFERENCES TO ARCHAEOLOGICAL INVESTIGATIONS

Appendix IV contains the list of references reviewed by the MCX during its archival research. No references were found for Pohakuloa Training Area in a search of the National Archeological Database (NADB).

## CULTURAL OVERVIEW OF THE REGION

Hawaii is among some thirty-eight major archipelagos and islands referred to as Polynesia (Kirch 1984:19). Archaeological evidence suggests that the Hawaiian islands have been inhabited by humans for the past 1,600 years. The apparent area of origin of these first Hawaiian inhabitants was in central East Polynesia, probably the Marquesas Islands. Information regarding early Hawaiian society is sketchy, however, it is believed that it must have been like that of the Ancestral Polynesians, who had a chiefdom based on corporate descent groups (Eidsness 1995:8).

European contact with Native Hawaiians commenced with British Captain James Cook's arrival in 1778. At this time, each of the eight islands that comprise Hawaii were under separate rule. Hawaiian society was hierarchically organized, with several grades of chiefs (*ali'i*) and land managers (*konohiki*) over a large class of commoners (*maka'ainana*). Social organization was closely tied to land use, which involved a tiered system of land divisions. Whole islands or



parts of islands constituted independent chiefdoms (*moku*) controlled by high chiefs. The *moku* were divided into a large number of wedge-shaped sections (*ahupua'a*) controlled by lesser-chiefs. Within the *ahupua'a* were smaller sections held and worked by extended households or groups of commoners (Kirch 1985:2; MacKenzie 1991:3).

Contact with the West brought significant changes in both the Hawaiian land tenure system and Hawaiian social structure. In 1795, King Kamehameha I brought all of the islands, with the exception of Kauai, under his control. Although Kamehameha did not make substantial alterations in land tenure, his rule provided a new administrative level for the islands. Kamehameha also initiated relationships with Westerners which became more intensified throughout the nineteenth century (MacKenzie 1991:5).

The Constitution of 1840, which established a governmental structure for the kingdom and formally declared that the land belonged to the chiefs and people, with the king as trustee for all, attempted to deal with conflicts over land that began to arise between Hawaiians and foreigners. The demand for change in the land tenure system resulted in the Great Mahele of 1848, which divided the kingdom into thirds: one-third to the Hawaiian government, one-third to the chiefs, and one-third to the commoners who worked the land. In 1850, legislation was passed which allowed Westerners to own and convey land (MacKenzie 1991:5-9).

By the late nineteenth century, Westerners owned large plantations on most of the islands and had gained significant economic and political power in the kingdom. The struggle to control land in the islands eventually resulted in the overthrow of the Hawaiian monarchy in 1893, when the U.S. minister to Hawaii, John Stevens, ordered U.S. naval forces to land in Hawaii in support of white settlers. The provisional government, and later the Republic of Hawaii, designated the Crown and government lands as its public lands. When the United States annexed the Republic of Hawaii in 1898, the revolutionary government ceded these public lands to the federal government (Parker 1989:135). When Hawaii was admitted to the Union as a state in 1959 the federal government relinquished title of the former Crown and Government lands to the state, although certain lands set aside through an act of congress, executive order, presidential proclamation, or gubernatorial proclamation remained the property of the United States. Congress passed legislation allowing these "retained" lands to be returned to the state when they are declared unnecessary to federal needs (MacKenzie 1991:18).

Pohakuloa Training Area is located in the north-central portion of the island of Hawai'i in the saddle region between the mountains of Mauna Kea, Mauna Loa, and Hualalai (Eidsness 1995:2). Portions of four ancient districts, or *moku*, cross the region (Hamakua, Hilo, Kona, and Kohala), although most of the installation is situated within the Kaohe *ahupua'a* of the Hamakua District (Eidsness 1995:12). Archaeological studies suggest that this marginal area was utilized by Native Hawaiians in prehistoric times for a variety of uses, including basalt quarrying, bird hunting, ritual activities, and disposal of the dead (Eidsness 1995:10-16).

Post-contact activities and uses of the PTA and saddle region have included transportation, bird hunting, bullock hunting, and ranching. Three major trails which provided access through the saddle region connecting Hilo, Kona, and Waimea have been documented in the PTA vicinity. The trails are believed to have been associated with bird-hunting activities during the late-precontact period. Bullocks (wild cattle) were hunted in the region by 1840, and ranching activities had begun by the mid-nineteenth century. Historical resources indicate that prior to establishment of the installation in 1956, utilization of the PTA vicinity was widely scattered, of limited duration, and involved relatively few people (Shapiro and Cleghorn 1995:15-17).

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## SECTION 6 COMPLIANCE

P.L. 101-601 (NAGPRA) requires that federal agencies engage in active consultation with Native Hawaiian organizations regarding archaeological collections from the installation. Enclosed are draft NAGPRA Section 6 Summary letters (Appendix I) and a list of points of contact at three Native Hawaiian organizations (Appendix II).

Two state-wide organizations are identified in NAGPRA (Sections 2.6 and 2.12) and must be contacted: the Office of Hawaiian Affairs, which was established by the constitution of the state of Hawaii; and Hui Malama I Na Kupuna O Hawai'i Nei, the non-profit, Native Hawaiian organization incorporated by the state to provide guidance and expertise in decisions dealing with Native Hawaiian cultural issues, particularly burial issues. Additionally, the Departmental Consulting Archeologist of the National Park Service recommends contacting the relevant island burial council (National Park Service 1993).

Although only the above mentioned organizations are identified in Appendix II, there may be other Native Hawaiian organizations or individuals that particular installations should contact regarding NAGPRA issues. The statutory definition (Section 2.11) should be used to identify any other Native Hawaiian organizations:

“Native Hawaiian organization” means any organization which:

- (A) serves and represents the interests of Native Hawaiians;
- (B) has as a primary and stated purpose the provision of services to Native Hawaiians,  
and
- (C) has expertise in Native Hawaiian Affairs.

Additionally, the term “Native Hawaiian” is defined as “any individual who is a descendant of the aboriginal people who, prior to 1778, occupied and exercised sovereignty in the area that now constitutes the State of Hawaii” (Section 2.10).

Refer to 43 CFR Part 10 for the implementing regulations for NAGPRA.

---

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1995 *Archaeological Investigations at Two Work Areas for the Legacy Resource Management Program at Pohakuloa Training Area, Hawai'i Island, Hawaii* (Draft). Prepared by BioSystems Analysis, Inc., Kailua, Hawaii for the U.S. Army Corps of Engineers, Fort Shafter, Hawaii.

## APPENDIX I

### DRAFT SECTION 6 SUMMARY LETTERS

[Installation Header]

Mr. Kunani Nihipali, President  
Hui Malama I Na Kupuna O Hawai'i Nei  
P.O. Box 190  
Haleiwa, HI 96712-0190

Dear Mr. Nihipali:

I am writing to inform you of collections held by Pohakuloa Training Area that may contain Native Hawaiian cultural items, as defined by the Native American Graves Protection and Repatriation Act (NAGPRA). Pohakuloa Training Area has documented these archaeological collections in a Summary in accordance with the requirements of Section 6 of NAGPRA.

Pohakuloa Training Area is responsible for collections that include approximately 59 ft<sup>3</sup> of archaeological collections reportedly housed at seven known repositories. These collections were generated from archaeological investigations conducted in the 1980s and 1990s. Materials include chipped and ground stone tools, adzed wood, volcanic glass, charcoal and ash samples, vegetal and faunal samples, gourd and nut fragments, shell, and historic metal, leather and glass. Two fragments of human skeletal material were identified in our review of archaeological collections documentation.

In accordance with Sections 6 and 2.11 of the statute, we are inviting you to consult with us regarding these archaeological collections. We are also notifying the Office of Hawaiian Affairs and the Hawaii Island Burial Council. Upon your written request, we will provide you access to review our records, catalogues, relevant studies, or other pertinent data for the purpose of determining the geographic origin, cultural affiliation, and basic facts surrounding acquisition and accession of these collections.

In the process of completing the Section 6 Summary, human bone fragments were identified at two repositories. Therefore, by means of this letter, we are also initiating consultation regarding the NAGPRA Section 5 Inventory. The U.S. Army would like to schedule Section 5 Inventory investigations of human remains at a date yet to be determined, tentatively in 1997. If Hui Malama I Na Kupuna O Hawai'i Nei wishes to comment on, or participate in, the Section 5 Inventory, please respond as soon as possible.

Please feel free to contact [Installation POC name] regarding any of these issues, at [telephone, address].

To facilitate discussions between Pohakuloa Training Area and Hui Malama I Na Kupuna O Hawai'i Nei on these matters, please forward the name and method of contacting your organizational representative or preferred NAGPRA point of contact. We look forward to working with you.

Sincerely,

[Commander's signature]

CF:	USARPAC	Commander U.S. Army Garrison, HI ATTN: APVG-GWV (Mark Salley) Schofield Barracks, HI 96857-5000
	USAEC	Commander, U.S. Army Environmental Center ATTN: SFIM-AEC-EC (Guldenzopf) Aberdeen Proving Ground, MD 21010-5401
	MCX	Commander, U.S. Army Corps of Engineers ATTN: CELMS-PD-C (Trimble) 1222 Spruce Street St. Louis, MO 63103-2833

[Installation Header]

Ms. Linda Kawai'ono Delaney  
Land & Natural Resources Officer  
Office of Hawaiian Affairs  
711 Kapiolani Blvd, Suite 500  
Honolulu, HI 96613

Dear Ms. Delaney:

I am writing to inform you of collections held by Pohakuloa Training Area that may contain Native Hawaiian cultural items, as defined by the Native American Graves Protection and Repatriation Act (NAGPRA). Pohakuloa Training Area has documented these archaeological collections in a Summary in accordance with the requirements of Section 6 of NAGPRA.

Pohakuloa Training Area is responsible for collections that include approximately 59 ft<sup>3</sup> of archaeological collections reportedly housed at seven known repositories. These collections were generated from archaeological investigations conducted in the 1980s and 1990s. Materials include chipped and ground stone tools, adzed wood, volcanic glass, charcoal and ash samples, vegetal and faunal samples, gourd and nut fragments, shell, and historic metal, leather and glass. Two fragments of human skeletal material were identified in our review of archaeological collections documentation.

In accordance with Sections 6 and 2.11 of the statute, we are inviting you to consult with us regarding these archaeological collections. We are also notifying Hui Malama I Na Kupuna O Hawai'i Nei and the Hawaii Island Burial Council. Upon your written request, we will provide you access to review our records, catalogues, relevant studies, or other pertinent data for the purpose of determining the geographic origin, cultural affiliation, and basic facts surrounding acquisition and accession of these collections.

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Please feel free to contact [Installation POC name] regarding any of these issues, at [telephone, address].



To facilitate discussions between Pohakuloa Training Area and the Office of Hawaiian Affairs on these matters, please forward the name and method of contacting your organizational representative or preferred NAGPRA point of contact. We look forward to working with you.

Sincerely,

[Commander's signature]

CF:	USARPAC	Commander U.S. Army Garrison, HI ATTN: APVG-GWV (Mark Salley) Schofield Barracks, HI 96857-5000
	USAEC	Commander, U.S. Army Environmental Center ATTN: SFIM-AEC-EC (Guldenzopf) Aberdeen Proving Ground, MD 21010-5401
	MCX	Commander, U.S. Army Corps of Engineers ATTN: CELMS-PD-C (Trimble) 1222 Spruce Street St. Louis, MO 63103-2833

[Installation Header]

Mr. Edward L. Kanahele, Chairperson  
Hawaii Island Burial Council  
696 Railroad Ave.  
P.O. Box A7  
Hilo, HI 96720

Dear Mr. Kanahele:

I am writing to inform you of collections held by Pohakuloa Training Area that may contain Native Hawaiian cultural items, as defined by the Native American Graves Protection and Repatriation Act (NAGPRA). Pohakuloa Training Area has documented these archaeological collections in a Summary in accordance with the requirements of Section 6 of NAGPRA.

Pohakuloa Training Area is responsible for collections that include approximately 59 ft<sup>3</sup> of archaeological collections reportedly housed at seven known repositories. These collections were generated from archaeological investigations conducted in the 1980s and 1990s. Materials include chipped and ground stone tools, adzed wood, volcanic glass, charcoal and ash samples, vegetal and faunal samples, gourd and nut fragments, shell, and historic metal, leather and glass. Two fragments of human skeletal material were identified in our review of archaeological collections documentation.

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Please feel free to contact [Installation POC name] regarding any of these issues, at [telephone, address].

To facilitate discussions between Pohakuloa Training Area and the Hawaii Island Burial Council on these matters, please forward the name and method of contacting your organizational representative or preferred NAGPRA point of contact. We look forward to working with you.

Sincerely,

[Commander's signature]

CF: USARPAC Commander U.S. Army Garrison, HI  
ATTN: APVG-GWV (Mark Salley)  
Schofield Barracks, HI 96857-5000

USAEC Commander, U.S. Army Environmental Center  
ATTN: SFIM-AEC-EC (Guldenzopf)  
Aberdeen Proving Ground, MD 21010-5401

MCX Commander, U.S. Army Corps of Engineers  
ATTN: CELMS-PD-C (Trimble)  
1222 Spruce Street  
St. Louis, MO 63103-2833

## **APPENDIX II**

### **NATIVE HAWAIIAN POINTS OF CONTACT**

#### **Organizations Named in the Statute**

Mr. Kunani Nihipali, President  
Hui Malama I Na Kupuna O Hawai'i Nei  
P.O. Box 190  
Haleiwa, HI 96712-0190  
808-637-6626

Ms. Linda Kawai'ono Delaney  
Land & Natural Resources Officer  
Office of Hawaiian Affairs  
711 Kapiolani Blvd, Suite 500  
Honolulu, HI 96613  
808-586-3742  
808-586-3799 FAX

#### **Island Burial Council**

Mr. Edward L. Kanahele, Chairperson  
Hawaii Island Burial Council  
696 Railroad Ave.  
P.O. Box A7  
Hilo, HI 96720  
808-933-3421

## **APPENDIX III**

### **SUMMARY OF CURRENT LOCATIONS OF ARCHAEOLOGICAL COLLECTIONS FROM POHAKULOA TRAINING AREA**

All collections information has been entered into a Paradox data base file and can be queried by any of the fields listed below, as well as by the name of the installation and by MACOM. The data base will be delivered by the MCX to the U.S. Army Environmental Center upon completion of the U.S. Army NAGPRA Compliance Project. Inquiries for additional information are welcome (MCX: 314-331-8865; U.S. Army Environmental Center NAGPRA Compliance Project: 410-671-1573). The data fields listed in the summary of collections contain the following information:

<b>REPOSITORY:</b>	The current location in which the collection is stored, as of the date of this report.
<b>REPOSITORY POC:</b>	The person contacted by the MCX, or the person to whom inquiries regarding the collection should be addressed.
<b>TELEPHONE:</b>	The telephone number for the repository POC.
<b>COLLECTION ID:</b>	The identifying unit used by the repository to store and/or locate the collection. This can be a unique accession number assigned by the repository, the archaeological site number or project name, the name of the collector of the collection, or another number or name assigned by the repository.
<b>SITE NUMBERS:</b>	The official site number or name only for those sites from which materials were collected. An investigator may have performed work at additional sites but did not collect any materials. Those site numbers are not included in this field.
<b>FIELDWORK DATES:</b>	The date(s) during which the investigation(s) occurred. This information is provided to differentiate between projects that may have investigated the same site repeatedly.
<b>EXCAVATOR/COLLECTOR:</b>	The individual and/or organization that conducted the investigation.

**COLLECTION SIZE:** The volume or number of objects in a collection, estimated by the repository POC or from project reports.

**DESCRIPTION OF MATERIALS:** General material classes of the objects in the collection derived from data provided on site records, in references, and/or by the Repository POC.

**ANTIQUITY/ARCH. PERIOD:** Chronological or cultural-historical designations recorded on site records or in references specific to the collection.

**CULTURAL AFFILIATION:** This column contains only those ethnic identifications found in the site records or references specific to the collection. This field is left blank if no such information was recorded.

**BASIS OF DETERMINATION:** Documents the source of the cultural affiliation information (e.g., site record, oral testimony, reference).

**SECTION 5 MATERIALS:** Describes the number and kind of human skeletal remains and associated funerary objects in the collection, as indicated by the site records, references, repository management documents, or information from repository POC. If these materials are present or are suspected to be present, NAGPRA Section 5 requires a physical inventory of the materials.

As of March 1996

Repository	Repository POC	Telephone	Collection ID	Site Numbers	Fieldwork Dates	Excavator/Coll
Bio-Systems Analysis, Inc., Kailua, HI	Eble	(808) 261-4300	Redleg Trail Survey 3627-501	18671-18673, 18675, 18677	1993	Bio-Systems An Inc., Kailua, HI
Bio-Systems Analysis, Inc., Kailua, HI	Eble	(808) 261-4300	Training Areas Survey (3627-012)	19490, 19491, 19495, 19497, 19499, 19501, 19510, 19514, 19519	1994	Bio-Systems An Inc., Kailua, HI
International Archaeological Research Institute, Inc., Honolulu, HI	David Welch	(808) 946-2548	Saddle Road Survey	5003, 14638	1990	International Archaeological Research Institute, Inc., Honolulu, HI
International Archaeological Research Institute, Inc., Honolulu, HI	Stephen Athens	(808) 946-2548	MPRC Project	10269, 10644-10658	1987	International Archaeological Research Institute, Inc., Honolulu, HI
National Museum of Natural History, Smithsonian Institution, Washington, DC	Helen James	(202) 357-2031	MPRC Project	10269, 10644, 10646, 10647, 10648, 10649, 10650, 10655, 10656, 10657, 10658	1987	International Archaeological Research Institute, Inc., Honolulu, HI
Ogden Environmental & Energy Services, Honolulu, HI	Allan J. Schiltz	(808) 545-2462	MPRC Data Recovery Project	10269, 10644, 10646, 10652, 10654, 10655, 10656, 10657	1990 - 1991	Ogden Environmental & Energy Services, Honolulu, HI
Paul H. Rosendahl, Inc., Hilo, HI	Paul Rosendahl	(808) 969-1763	Survey & Testing at Bobcat Trail Cave & Kipuka	5004; T101-113	1985	Paul H. Rosendahl, Inc., Hilo, HI
State Historic Preservation Division, Department of Land & Natural Resources, Honolulu, HI	Sara Collins	(808) 587-0045	International Archaeological Research Institute, Inc., Catalog No. 11	10650	1987	International Archaeological Research Institute, Inc., Honolulu, HI
University of Hawaii-Hilo, Hilo, HI	Wanda Pua-Kaipō, at Paul H. Rosendahl, Inc., Hilo, HI	(808) 969-1763	Survey & Testing at Bobcat Trail Cave & Kipuka	5004; T101-113	1986	Paul H. Rosendahl, Inc., Hilo, HI

Location of Archaeological Collections From: Pohakuloa Training Area, Hawaii [PACCOM]

As of March 1996

	Fieldwork Dates	Excavator/Collector	Collection Size	Description of Materials	Antiquity/Archaeological Period	Cultural Affiliation	Basis of Determination
	1993	Bio-Systems Analysis, Inc., Kailua, HI	~ 1 cu. ft. (1 box)	Lithic Flakes, Volcanic Glass, Charcoal, Wood & Ash Samples, Vegetal & Faunal Samples, Gourd & Nut Fragments, & Opihi Shells (Modified & Unmodified)	Prehistoric		
9499,	1994	Bio-Systems Analysis, Inc., Kailua, HI	~ 1 cu. ft. (1 box)	Stone Tools, Modified Wood, Volcanic Glass, Cordage, Faunal Bone	Prehistoric		
	1990	International Archaeological Research Institute, Inc., Honolulu, HI	~ 1 cu. ft. (< 1 box)	Wood Comb, Volcanic Glass Nodules, Basalt Adze & Flakes, Shell, Charcoal, Faunal Bone, Kukui Nuts, Vegetal Matter, Historic Bottle Glass			
	1987	International Archaeological Research Institute, Inc., Honolulu, HI	~ 1 cu. ft. (1 box)	Charcoal, Wood Shell, Kukui Nuts, Volcanic Glass, Gourd Container, Basalt, Leather, Fireplow, Hammerstone, Adzed Wood	Prehistoric - Early Historic		
1648, 1657,	1987	International Archaeological Research Institute, Inc., Honolulu, HI	~ 1 cu. ft. (540.1g)	Bird Bones			
654,	1990 - 1991	Ogden Environmental & Energy Services, Honolulu, HI	~ 24 cu. ft. (24 boxes); 6 linear ft. of Documentation	Stone & Bone Tools, Shell, Wood, Gourds, Fiber, Flora & Fauna, Leather	A.D. 1200 - Historic		
	1985	Paul H. Rosendahl, Inc., Hilo, HI	15.62 cu. ft.; .3 linear ft. of Documentation	Stone Tools, Lithics Shell, Cordage, Matting, Wood, Gourds, Animal Bone; Historic Metal & Leather	A.D. 1050 - Historic		
	1987	International Archaeological Research Institute, Inc., Honolulu, HI	1 Human Bone Fragment	Proximal End of a Burned Right Human Tibia			
	1986	Paul H. Rosendahl, Inc., Hilo, HI	14.56 cu. ft.	Vegetal Samples	A.D. 1050 - Historic		



Antiquity/Archaeological Period	Cultural Affiliation	Basis of Determination	Section 5 Materials
Prehistoric			N
Prehistoric			N
			N
Prehistoric - Early Historic			N
			N
D. 1200 - Historic			N
D. 1050 - Historic			Y; .79g. Human Bone
			Y
D. 1050 - Historic			N

## APPENDIX IV

### MCX LIST OF REFERENCES

In addition to the references reviewed by MCX personnel at the archaeological site information center, every attempt was made to obtain references cited but not on file. Information taken from these references was coded for data relating to collections made from sites located on installation property (see attached sample of PD-C Bibliographic Data Sheet form) and entered into a data base for ease of manipulation.

Report titles were drawn directly from the title page of reports, and consist of the following fields:

FIELD	DATA ENTERED
Subject Property	Army Installation name
Last Name	Primary author's last name
First Name	Primary author's first name
Middle Initial	Primary author's middle initial
Secondary Authors	Names of secondary authors, <i>or</i> in instances where the author is a company rather than an individual, the company name is listed here
Title	Title of the reference. For letter reports, the person or agency to whom the correspondence is addressed is listed as the title.
Series	If the report is part of a publication series, the name and number are provided here.
Date	Date of publication or submission
Length	Report length in pages
Contract Number	Contract number and delivery order number, if applicable

The data for the next three fields are drawn directly from the report title page and reflect the hierarchy of contracting agencies involved in accomplishing the work. In some cases, the sponsoring agency is listed as the Army installation; in others, the intermediary contracting agent, (e.g., the Army Corps of Engineers or the National Park Service) is listed as the Sponsoring Agency.

Sponsoring Agency	Agency for which the report was prepared
Contractor	The agent contracted to perform the work
Subcontractor	The agent subcontracted to perform the work

The majority of the citations for archaeological investigations on Army land refer to unpublished reports prepared under contract with federal agencies, consequently the MCX printout was designed to address these reports. In instances where the author is a company rather than an individual, the company name is listed in the Secondary Authors field (due to the length of the field). For published references, the publisher is listed in the Sponsoring Agency field.

Page \_\_\_\_ of \_\_\_\_

Fieldwork  
Page \_\_\_\_ of \_\_\_\_

NADB No.

PD-C Collection No.

## PD-C Bibliography Data Sheet

Date: \_\_\_\_\_

Information obtained by: \_\_\_\_\_

**PD-C Project:**

Subject Property:

*Repository (name and location):*

*Record Collection Name/Number:*

*Report Date and Length (in pages):*

*Author(s):*

*Title:*

*Contractor/Address or Publisher/Address (city, state):*

*Subcontractor/Address (city, state):*

*Report Series and Number:*

*Contract/Purchase Order Number(s):*

*Sponsoring Agency/Address:*

*Project Name and Location:*

Principal Investigator(s)/Director(s):

Fieldwork Dates:

Type of Investigation (e.g., survey, testing, mitigation):

**PD-C Bibliography Data Sheet (continued)**

**Site Numbers:**

**Archaeological Period (e.g., Hohokam, Mississippian):**

**Material Classes (range):**

**Artifact Collections and Locations:**

**Approximate Size of Collections (e.g., number of objects):**

**Record Collections and Locations:**

**NAGPRA Materials (Check if present)**

**Human Skeletal Remains** \_\_\_\_\_

**Objects**

**Associated Funerary** \_\_\_\_\_

**Unassociated Funerary** \_\_\_\_\_

**Sacred** \_\_\_\_\_

**Cultural Patrimony** \_\_\_\_\_

Human Skeletal Remains Data Sheet ☐  
Number of Attached Sheets \_\_\_\_\_

Object Data Sheet ☐  
Number of Attached Sheets \_\_\_\_\_

**Cultural Affiliation(s):**

**Basis for Affiliation Determination (e.g., geographic location, burial practices):**

**Comments:**

**MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996**

**Subject property :** Pohakuloa Training Area, HI

**Last name :**

**First name :**

**Middle Initial :**

**Secondary Authors :**

**Title :** MPRC Project Information-Pohakuloa Training Center, Hamakua, Big Island. Picture and Maps.

**Series :**

**Date :** 1988

**Length :**

**Contract Number :**

**Sponsoring Agency :**

**Contractor :**

**Subcontractor :**

**Subject property :** Pohakuloa Training Area, HI

**Last name :**

**First name :**

**Middle Initial :**

**Secondary Authors :** ERC Environmental and Energy Services Co. (ERCE)

**Title :** Research Proposal for Archaeological Data Recovery at the Multi-Purpose Range Complex, Pohakuloa Training Area, Island of Hawai'i, Hawaii.

**Series :**

**Date :** 10/90

**Length :** 31

**Contract Number :** DACA83-90-C-0102

**Sponsoring Agency :** US Army Corps of Engineers-Honolulu District, Fort Shafter, HI

**Contractor :** ERC Environmental and Energy Services Co., Western Region-Environmental Sciences Division

**Subcontractor :**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Athens

**First name :** J.

**Middle Initial :** Stephen

**Secondary Authors :** Michael W. Kaschko

**Title :** Prehistoric Upland Bird Hunters: Archaeological Inventory Survey and Testing for the MPRC Project Area and the Bobcat Trail Road, Pohakuloa Training Area, Island of Hawaii.

**Series :**

**Date :** 09/88

**Length :**

**Contract Number :** DACA83-87-C-0072

**Sponsoring Agency :** US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

**Contractor :** International Archaeological Research Institute, Inc. (IARII)

**Subcontractor :**

**MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Barrera, Jr.

**First name :** William

**Middle Initial :**

**Secondary Authors :**

**Title :** Saddle Road, Hawaii Island: Archaeological Reconnaissance.

**Series :**

**Date :** 02/83

**Length :** 3

**Contract Number :**

**Sponsoring Agency :** EDAW, Inc., Honolulu, HI

**Contractor :** Chiniago, Inc.

**Subcontractor :**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Barrera, Jr.

**First name :** William

**Middle Initial :**

**Secondary Authors :**

**Title :** Saddle Road, Hawaii Island: Archaeological Survey of 138kV Powerline.

**Series :**

**Date :** 06/87

**Length :** 19

**Contract Number :**

**Sponsoring Agency :** R.M. Towill Corporation, Honolulu, HI

**Contractor :** Chiniago, Inc.

**Subcontractor :**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Cleghorn

**First name :** June

**Middle Initial :** N.J.

**Secondary Authors :**

**Title :** Initial Consultation with Native Hawaiians. Appendix 2, In Historic Preservation Plan for Pohakuloa Training Area, Island of Hawaii, Hawaii (Draft) by Janet P. Eidsness.

**Series :** 3627-12B

**Date :** 08/95

**Length :** 5

**Contract Number :** DACA83-91-D-0024, Delivery Order 0012

**Sponsoring Agency :** US Army Corps of Engineers-Honolulu District, Fort Shafter, HI

**Contractor :** BioSystems Analysis, Inc.

**Subcontractor :** Pacific Legacy, Inc.

**MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Cleghorn

**First name :** Paul

**Middle Initial :** L.

**Secondary Authors :**

**Title :** Research Design for Native Hawaiian Archaeological Resources at Pohakuloa Training Area. Appendix B, In Historic Preservation Plan for Pohakuloa Training Area, Island of Hawaii, Hawaii (Draft) by Janet P. Eidsness.

**Series :** 3627-12B

**Date :** 08/95

**Length :** 30

**Contract Number :** DACA83-91-D-0024, Delivery Order 0012

**Sponsoring Agency :** US Army Corps of Engineers-Honolulu District, Fort Shafter, HI

**Contractor :** BioSystems Analysis, Inc.

**Subcontractor :** Pacific Legacy, Inc.

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Cordy

**First name :** Ross

**Middle Initial :**

**Secondary Authors :**

**Title :** A Regional Synthesis of Hamakua District, Island of Hawai'i.

**Series :**

**Date :** 1994

**Length :** 148

**Contract Number :**

**Sponsoring Agency :** Historic Preservation Division, Department of Land & Natural Resources, State of Hawaii, Honolulu, HI

**Contractor :**

**Subcontractor :**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Cox

**First name :** David

**Middle Initial :**

**Secondary Authors :**

**Title :** Preliminary Cultural Resources Reconnaissance Report for Tank Trail from Kawaihae to Pohakuloa Training Area, Island of Hawaii.

**Series :**

**Date :** 04/83

**Length :**

**Contract Number :** DACA84-82-M-0141

**Sponsoring Agency :** Directorate of Facilities Engineering

**Contractor :** US Army Corps of Engineers-Pacific Ocean Division

**Subcontractor :**



MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996

Subject property : Pohakuloa Training Area, HI

Last name : Cox

First name : David

Middle Initial :

Secondary Authors :

Title : Preliminary Field Check of the Possible Site for the Proposed PTA Multi-Purpose Firing Range.

Series :

Date : 04/83

Length :

Contract Number : DACA84-82-M-0141

Sponsoring Agency : Directorate of Facilities Engineering

Contractor : US Army Corps of Engineers-Pacific Ocean Division

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Cox

First name : David

Middle Initial :

Secondary Authors :

Title : Site Visit and Archaeological Reconnaissance of the Firebreak Route Along Puu Kulua Road, Pohakuloa Training Area (PTA), Island of Hawaii.

Series :

Date : 12/83

Length : 22

Contract Number :

Sponsoring Agency :

Contractor : US Army Corps of Engineers-Honolulu District

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Cox

First name : David

Middle Initial : \_

Secondary Authors :

Title : Site Visit and Preliminary Assessment of Two Sites at PTA Being Considered for Nomination to the National Register of Historic Places.

Series :

Date : 04/83

Length :

Contract Number : DACA84-82-M-0141

Sponsoring Agency : Directorate of Facilities Engineering

Contractor : US Army Corps of Engineers-Pacific Ocean Division

Subcontractor :

**MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Cox

**First name :** David

**Middle Initial :**

**Secondary Authors :**

**Title :** Trip Report and Findings for Three Related Cultural Resource/Archaeological Projects at Pohakuloa Training Area, Island of Hawaii.

**Series :**

**Date :** 04/83

**Length :** 20

**Contract Number :** DACA84-82-M-0141

**Sponsoring Agency :** Directorate of Facilities Engineering

**Contractor :** US Army Corps of Engineers-Pacific Ocean Division

**Subcontractor :**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Eidsness

**First name :** Janet

**Middle Initial :** P.

**Secondary Authors :**

**Title :** Annotated Bibliography of Archaeological Studies for Pohakuloa Training Area. Appendix A, In Historic Preservation Plan for Pohakuloa Training Area, Island of Hawai'i, Hawaii (Draft) by Janet P. Eidsness.

**Series :** 3627-12B

**Date :** 08/95

**Length :** 37

**Contract Number :** DACA83-91-D-0024, Delivery Order 0012

**Sponsoring Agency :** US Army Corps of Engineers-Honolulu District, Fort Shafter, HI

**Contractor :** BioSystems Analysis, Inc.

**Subcontractor :** Pacific Legacy, Inc.

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Eidsness

**First name :** Janet

**Middle Initial :** P.

**Secondary Authors :**

**Title :** Historic Preservation Plan for Pohakuloa Training Area, Island of Hawai'i, Hawaii. (Draft)

**Series :** 3627-12B

**Date :** 08/95

**Length :** 103

**Contract Number :** DACA83-91-D-0024, Delivery Order 0012

**Sponsoring Agency :** US Army Corps of Engineers-Honolulu District, Fort Shafter, HI

**Contractor :** BioSystems Analysis, Inc.

**Subcontractor :** Pacific Legacy, Inc.

MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996

Subject property : Pohakuloa Training Area, HI

Last name : Hammatt

First name : Hallett

Middle Initial : H.

Secondary Authors : David W. Shideler

Title : Archaeological Assessment and Sensitivity Map of the Pohakuloa Training Area (PTA), Hawai'i Island, State of Hawai'i.  
(Final Report).

Series :

Date : 11/91

Length : 90

Contract Number :

Sponsoring Agency : Richard Soto and Associates

Contractor : Cultural Surveys Hawaii

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Haun

First name : Alan

Middle Initial : E.

Secondary Authors :

Title : Archaeological Survey and Testing at the Bobcat Trail Habitation Cave Site (50-10-30-5004), Pohakuloa Training Area,  
Island of Hawaii, Hawaii.

Series : 184-041686

Date : 08/86

Length :

Contract Number : DACA83-85-C-0176

Sponsoring Agency : US Army Corps of Engineers-Honolulu District, Fort Shafter, HI

Contractor : Paul H. Rosendahl, Inc.

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Hommon

First name : Robert

Middle Initial : J.

Secondary Authors :

Title : An Aerial Cultural Resources Reconnaissance of Two Areas Near Pohakuloa Training Area, Island of Hawaii.

Series :

Date : 06/82

Length : 21

Contract Number : DACA84-82-M-0072

Sponsoring Agency : US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

Contractor : Science Management, Inc.

Subcontractor :

**MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Hommon

**First name :** Robert

**Middle Initial :** J.

**Secondary Authors :** Hamilton M. Ahlo, Jr.

**Title :** A Research Design for Archaeological Studies at the Pohakuloa Training Area, Island of Hawaii.

**Series :**

**Date :** 02/83

**Length :** 100

**Contract Number :** DACA84-82-M-0071

**Sponsoring Agency :** US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

**Contractor :** Science Management, Inc.

**Subcontractor :**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Hunt

**First name :** Terry

**Middle Initial :** L.

**Secondary Authors :**

**Title :** Archaeological Survey of Proposed Water Transmission Lines and Pump Stations, Saddle Road and Waimea, Island of Hawai'i.

**Series :**

**Date :**

**Length :**

**Contract Number :**

**Sponsoring Agency :**

**Contractor :**

**Subcontractor :**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** James

**First name :** Helen

**Middle Initial :** F.

**Secondary Authors :**

**Title :** Notes On a Visit to MPRC Site 10658, 10 July 1990. Letter Report.

**Series :**

**Date :** 06/26/91

**Length :**

**Contract Number :**

**Sponsoring Agency :**

**Contractor :** National Museum of Natural History, Smithsonian Institution

**Subcontractor :**

MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996

Subject property : Pohakuloa Training Area, HI

Last name : Kalima

First name : Lehua

Middle Initial :

Secondary Authors : Paul H. Rosendahl

Title : Supplemental Environmental Report, Archaeological Survey of 138kV Transmission Line No. 2, Districts of North and South Hilo, Hamakua, and South Kohala, Island of Hawaii. (Draft).

Series :

Date : 09/91

Length : 11

Contract Number :

Sponsoring Agency : Hawaii Electric Light Co., and Hawaiian Electric Co., Inc.

Contractor : CH2M

Subcontractor : Paul H. Rosendahl, Inc.

Subject property : Pohakuloa Training Area, HI

Last name : Kam

First name : Wendell

Middle Initial :

Secondary Authors :

Title : Inspection of Fire Break Route at Pohakuloa Training Area.

Series : 1982a

Date : 02/25/82

Length : 1

Contract Number :

Sponsoring Agency :

Contractor :

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Ono

First name : Susumu

Middle Initial : —

Secondary Authors :

Title : Staff Inspection of Proposed Jeep Trail and Firebreak at Pohakuloa Training Area (June 2-4, 1982), Kaohe, Hamakua, Hawaii, TMK 4-4-15; various.

Series : 1982b

Date : no date

Length : 1

Contract Number :

Sponsoring Agency :

Contractor :

Subcontractor :

MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996

Subject property : Pohakuloa Training Area, HI

Last name : Reinman

First name : Fred

Middle Initial : M.

Secondary Authors :

Title : Research Strategy for an Archaeological Inventory Survey, Multi-Purpose Range Complex, Pohakuloa Training Area, Island of Hawaii, Hawaii.

Series :

Date : 11/91

Length :

Contract Number :

Sponsoring Agency : US Army Corps of Engineers-Honolulu District, Fort Shafter, HI

Contractor : ERC Environmental and Energy Services Co. (ERCE)

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Reinman

First name : Fred

Middle Initial : M.

Secondary Authors : Allan J. Schilz

Title : Aerial and Ground Archaeological Inventory Survey for Compilation of Environmental Impact Statement, Multi-Purpose Range Complex, Pohakuloa Training Area, Island of Hawaii. (Draft).

Series :

Date : 02/93 (revised 03/93)

Length : 335

Contract Number : DACA-83-91-0025

Sponsoring Agency : US Army Corps of Engineers-Honolulu District, Fort Shafter, HI

Contractor : Ogden Environmental and Energy Services Co., Inc.

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Reinman

First name : Fred

Middle Initial : M.

Secondary Authors : Allan J. Schilz

Title : Archaeological Data Recovery at the Multi-Purpose Range Complex, Pohakuloa Training Area, Island of Hawaii, Hawaii. (Draft).

Series :

Date : 07/92

Length : 123

Contract Number : DACA83-90-C-0102

Sponsoring Agency : US Army Corps of Engineers, Environmental Branch, Fort Shafter, HI

Contractor : Ogden Environmental and Energy Services Co., Inc.

Subcontractor :

**MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996**

Subject property : Pohakuloa Training Area, HI

Last name : Rosendahl

First name : Margaret

Middle Initial : L.K.

Secondary Authors :

Title : Cultural Survey for Documentation of National Register Nomination of Bobcat Trail Habitation Cave Site 50-10-30-5004.

Series : Report Ms. 72-120783

Date : 12/83

Length : 19

Contract Number : DACA84-82-M-0141

Sponsoring Agency : US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

Contractor : Paul H. Rosendahl, Inc.

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Rosendahl

First name : Margaret

Middle Initial : L.K.

Secondary Authors : Paul H. Rosendahl

Title : Archaeological Reconnaissance Survey, Saddle Road Shoulder Project, Lands of Punahoa 1 and Piihunua, District of South Hilo; Land of Humuula, District of North Hilo; Land of Kaohe, District of Hamakua; and Land of Waikoloa, District of South Kahola,

Series : Report 229-051486

Date : 05/22/86

Length :

Contract Number :

Sponsoring Agency : Juvik and Juvik Environmental Consultants, Hilo, HI

Contractor : Paul H. Rosendahl, Inc.

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Rosendahl

First name : Paul

Middle Initial : —

Secondary Authors :

Title : Archaeological Inventory and Evaluation Report for U.S. Army Support Command, Hawaii (USASCH). Part I: Report Text

Series :

Date : 03/77

Length : 106

Contract Number : DACA84-76-C-0175

Sponsoring Agency : US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

Contractor : Department of Anthropology, Bernice P. Bishop Museum

Subcontractor :

MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996

Subject property : Pohakuloa Training Area, HI

Last name : Rosendahl

First name : Paul

Middle Initial :

Secondary Authors :

Title : Archaeological Inventory and Evaluation Report for U.S. Army Support Command, Hawaii (USASCH). Part II: Tables

Series :

Date : 03/77

Length : 57

Contract Number : DACA84-76-C-0175

Sponsoring Agency : US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

Contractor : Department of Anthropology, Bernice P. Museum

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Shapiro

First name : Lisa

Middle Initial :

Secondary Authors : Paul L. Cleghorn

Title : Archaeological Investigations of Two Work Areas for The Legacy Resource Management Program at Pohakuloa Training Area, Hawai'i Island, Hawaii. (Draft).

Series : J-3627-012A

Date : 02/95

Length : 160

Contract Number : DACA83-91-D-0024, Delivery Order 0012

Sponsoring Agency : US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

Contractor : BioSystems Analysis, Inc.

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Shapiro

First name : Lisa

Middle Initial :

Secondary Authors : William A. Shapiro and Paul L. Cleghorn

Title : Redleg Trail Archaeological Investigations for the Legacy Resource Management Program at Pohakuloa Training Area, Hawaii Island, Hawai'i. (Draft).

Series :

Date : 03/95

Length : 120

Contract Number : DACA83-91-D-0024

Sponsoring Agency : US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

Contractor : BioSystems Analysis, Inc.

Subcontractor :



**MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Shapiro

**First name :** William

**Middle Initial :** A.

**Secondary Authors :**

**Title :** Summary Report at the Completion of Laboratory Analysis for the Archaeological Survey at the Pohakuloa Training Area, Hawai'i Island, Hawai'i.

**Series :** Job 3557-500

**Date :** 07/16/93

**Length :**

**Contract Number :** DACA83-91-D-0024, Delivery Order 0005

**Sponsoring Agency :** US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

**Contractor :** BioSystems Analysis, Inc.

**Subcontractor :**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Streck, Jr.

**First name :** Charles

**Middle Initial :**

**Secondary Authors :**

**Title :** Archaeological Reconnaissance Site Survey of Five Land Parcels at Pohakuloa Training Area (PTA), Hawaii.

**Series :**

**Date :** 02/84

**Length :** 9

**Contract Number :**

**Sponsoring Agency :** US Army Support Command Hawaii (USACH)

**Contractor :** US Army Corps of Engineers-Pacific Ocean Division

**Subcontractor :**

**Subject property :** Pohakuloa Training Area, HI

**Last name :** Streck, Jr.

**First name :** Charles

**Middle Initial :** F.

**Secondary Authors :**

**Title :** Aerial Archaeological Reconnaissance Site Survey for Proposed Artillery Firing Points, Firebreak/Road Route, and Other Facilities at Pohakuloa Training Area (PTA), Island of Hawai'i, Hawaii.

**Series :**

**Date :** 03/86

**Length :** 48

**Contract Number :**

**Sponsoring Agency :** US Army Support Command Hawaii (USACH)

**Contractor :** US Army Corps of Engineers-Pacific Ocean Division

**Subcontractor :**

MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996

Subject property : Pohakuloa Training Area, HI

Last name : Streck, Jr.

First name : Charles

Middle Initial : F.

Secondary Authors :

Title : Discovery of Potential Nesting Site for Threatened Bird Species and Prehistoric Hawaiian Archaeological Sites During Field Investigations at Pohakuloa Training Area, Hawaii Island, Hawaii, February 1990. Letter Report.

Series :

Date : 05/14/90

Length : 5

Contract Number :

Sponsoring Agency : US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

Contractor :

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Streck, Jr.

First name : Charles

Middle Initial : F.

Secondary Authors :

Title : Prehistoric Settlement in the Upland Portions of the Island of Hawaii.

Series : New Zealand Journal of Archaeology. Volume 14, pp. 99-111

Date : 1992

Length : 13

Contract Number :

Sponsoring Agency :

Contractor :

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Streck, Jr.

First name : Charles

Middle Initial : F.

Secondary Authors :

Title : Trip Report for Aerial Archaeological Reconnaissance Survey of Proposed Site for Multi-Purpose Range Complex, Pohakuloa Training Area, Island of Hawaii, Hawaii, 3-5 April 1985.

Series :

Date : 04/85

Length : 10

Contract Number :

Sponsoring Agency : US Army Support Command Hawaii (USACH)

Contractor : US Army Corps of Engineers-Pacific Ocean Division

Subcontractor :

MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996

Subject property : Pohakuloa Training Area, HI

Last name : Streck, Jr.

First name : Charles

Middle Initial : F.

Secondary Authors :

Title : Trip Report for Archaeological Survey of New Baseline Area, Multi-Purpose Range Complex (MPRC), U.S. Army  
Pohakuloa Training Area, Island of Hawaii.

Series :

Date : 02/90

Length :

Contract Number :

Sponsoring Agency : US Army Support Command Hawaii (USACH)

Contractor : US Army Corps of Engineers-Pacific Ocean Division

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Streck, Jr.

First name : Charles

Middle Initial : F.

Secondary Authors :

Title : Trip Report, Aerial Archaeology Reconnaissance Survey for Revised Proposed Site for Multi-Purpose Range Complex,  
Pohakuloa Training Area, Hamakua, Hawaii.

Series :

Date : 05/08/86

Length : 18

Contract Number :

Sponsoring Agency : US Army Support Command Hawaii (USACH)

Contractor : US Army Corps of Engineers-Pacific Ocean Division

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Streck, Jr.

First name : Charles

Middle Initial : F.

Secondary Authors :

Title : Trip Report, Summary of Archaeological Survey of Four Land Parcels at the Pohakuloa Training Area (U.S. Army),  
Hawaii Island, Hawaii.

Series :

Date : 08/03/84

Length : 4

Contract Number :

Sponsoring Agency : US Army Support Command Hawaii (USACH)

Contractor : US Army Corps of Engineers-Pacific Ocean Division

Subcontractor :

MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996

Subject property : Pohakuloa Training Area, HI

Last name : Watanabe

First name : Farley

Middle Initial :

Secondary Authors :

Title : Final Report for Archaeological Aerial and Limited Ground Reconnaissance of Various Parcels Situated at Hawaii Island Selected as Potential Military Training Areas.

Series :

Date : 09/26/86

Length : 62

Contract Number :

Sponsoring Agency : US Army Support Command Hawaii (USACH)

Contractor : US Army Corps of Engineers-Honolulu District

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Watanabe

First name : Farley

Middle Initial :

Secondary Authors :

Title : Trip Report, Aerial Archaeology Reconnaissance Survey for the Revised Proposed Site for the Multi-Purpose Range Complex, Pohakuloa Training Area, Hamakua, Island of Hawai'i, 31 Mar thru 4 Apr (Memorandum). Appendix F in Environmental Assessment for

Series :

Date : 05/08/86

Length : 18

Contract Number :

Sponsoring Agency : US Army Support Command Hawaii (USACH)

Contractor : US Army Corps of Engineers-Pacific Ocean Division

Subcontractor :

Subject property : Pohakuloa Training Area, HI

Last name : Watanabe

First name : Farley

Middle Initial :

Secondary Authors :

Title : Trip Report, Site Inspection of Archaeological Investigations Performed by International Archaeological Research Institute, Inc. at MPRC, Pohakuloa Training Area, Island of Hawaii, 16-18 Sep 1987.

Series :

Date : 09/21/87

Length : 7

Contract Number : DACA83-87-R-0028

Sponsoring Agency : US Army Corps of Engineers-Pacific Ocean Division, Fort Shafter, HI

Contractor : International Archaeological Research Institute, Inc.

Subcontractor :

**MCX List of References for Pohakuloa Training Area, Hawaii [PACCOM] as of March 1996**

**Subject property : Pohakuloa Training Area, HI**

**Last name : Welch**

**First name : David**

**Middle Initial : J.**

**Secondary Authors :**

**Title : Archaeological Survey and Testing for the Saddle Road Improvement Project, Pohakuloa Area, Island of Hawai'i, Hawaii.**

**Series :**

**Date : 11/92**

**Length :**

**Contract Number : CX 800-0-0031**

**Sponsoring Agency : Central Federal Lands Highway Division, Federal Highways Administration, Denver, CO**

**Contractor : US Department of the Interior, National Park Service, Western Region, Interagency Archaeological Services Branch**

**Subcontractor : International Archaeological Research Institute Inc.**